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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
09/974,878	10/12/2001	Isamu Hotta	040302-0278	7600	
75	590 10/22/2002				
Glenn Law			EXAMINER		
FOLEY & LAF Washington Ha			TRAN, I	AN, DIEM T	
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Washington, DC 20007-5109		ART UNIT	PAPER NUMBER		
			3748		
			DATE MAILED: 10/22/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Applicat	ion No.	Applicant(s)			
Office Action Summany	09/974,8	378	HOTTA ET AL.			
Office Action Summary	Examine		Art Unit			
The MAIL INC DATE of this commu	Diem Tr		3748			
Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s)	filed on .					
2a)⊠ This action is FINAL .	2b) ☐ This action is	s non-final.				
3) Since this application is in condition	,—					
Disposition of Claims						
4) Claim(s) 1-12 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-12</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restr	iction and/or election	requirement.				
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (3) Information Disclosure Statement(s) (PTO-1449)			(PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

- This office action is in response to the amendment filed on 8/7/02.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Frost et al. (US Patent 5,776,417).

Regarding claim 1, Frost discloses an exhaust emission control device of an internal combustion engine, comprising:

a CO oxidation catalyst; and a water trap disposed upstream of and close to the CO oxidation catalyst (see col. 2, lines 21-30).

Regarding claims 2, 4, Frost discloses an exhaust emission control device of an internal combustion engine, comprising:

an underfloor catalyst wherein a CO oxidation catalyst and a water trap are coated on a support (see col. 3, lines 14-19);

a HC trap disposed upstream of the water trap (see Figure 1, see col. 2, lines 3-17).

Regarding claim 3, Frost further discloses the water trap being disposed upstream of the CO oxidation catalyst (see col. 2, lines 21-30).

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Regarding claims 5, 6, Frost further discloses that the water trap and CO oxidation are disposed as layers or mixed to each other (see col. 3, lines 14-22).

Regarding claim 7, Frost further discloses the CO oxidation catalyst having low temperature light-off characteristics (see col. 6, lines 12-13).

Regarding claim 8, Frost further discloses that a secondary air supply unit disposed upstream of the water trap (see Figure 1).

Regarding claim 9, Frost further discloses that a HC trap disposed upstream of the water trap (see Figure 1, see col. 2, lines 3-17).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Frost et al. (US Patent 5,776,417) in view of Mizuno et al. (US Patent 6,029,441).

Regarding claim 10, Frost discloses all the claimed limitations as discussed in claim 1 above, Frost further discloses a secondary air supply unit disposed upstream of the water trap (see Figure 1); however, fails to disclose a HC trap disposed upstream of the secondary air supply unit. Mizuno teaches that it is conventional in the art, to utilize a HC trap (10) disposed upstream of the secondary air supply unit (16) (see Figure 2; see col. 8, lines 51-63).

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Regarding claims 11, 12, Frost discloses an exhaust emission control device of an internal combustion engine, comprising:

a low temperature light-off CO oxidation catalyst; a water trap disposed upstream of and close to the CO oxidation catalyst (see col. 2, lines 21-30); a secondary air supply unit disposed upstream of the water trap (see Figure 1); however, fails to disclose a HC trap disposed upstream of the secondary air supply unit. Mizuno teaches that it is conventional in the art, to utilize a HC trap disposed upstream of the secondary air supply unit (see Figure 2; see col. 8, lines 51-63).

It would have been obvious to one having ordinary skill in the art at the time the invention was made, to have utilized said HC trap disposed upstream of the secondary air supply unit as taught by Mizuno in the Frost device since such would have increased the efficiency of the emission control system.

Response to Arguments

Applicant's arguments filed 8/7/02 have been fully considered but they are moot in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Conclusion

Any inquiry concerning this communication from the examiner should be directed

to Examiner Diem Tran whose telephone number is (703) 308-6073. The examiner

can normally be reached on Monday -Friday from 8:30 a.m.- 5:00p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thomas E. Denion, can be reached on (703) 308-2623. The fax

number for this group is (703) 308-7763.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Group receptionist whose telephone number is

(703) 308-0861.

DT

October 17, 2002

Diem Tran

Patent Examiner

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SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 3700